

Attachment B

Technical Service Provider – Training Inventory

This attachment includes four Excel spreadsheets that identify areas of proficiency that TSPs will need to deliver quality service. They also identify the NEDC courses that could be used to train TSPs, as well as non-NEDC courses and training methods that could be made available to TSPs. Finally, they identify training gaps that will need to be filled, if training is to be made available to TSPs.

Worksheet 1 is a form on which to enter data on State-level training currently available to TSPs and individuals who wish to become TSPs. You may use this form to enter information about TSP training currently available in your State. Enter the name of the course or type of training in Column 1. If the training is specific to a technical service category in Tech Reg, identify the Tech Reg technical service category the training applies to.

Worksheet 2: Page 1 lists the NEDC courses that have been identified as necessary or useful in training TSPs. Column 4 of this worksheet lists the modules of NEDC courses taken as self study that are listed as “**currently available.**” Modules delivered at the State level through either classroom or field exercises are listed as “**not established.**”

Worksheet 3: Pages 1, 2, 3, and 4 identify areas of training for which no NEDC courses are available. It also identifies a limited number of situations in which training development activity is under way.

Worksheet 4: Pages 1–13 list the technical service categories of Tech Reg. It also identifies the required proficiencies for each category of technical service, and the methods used to train NRCS employees and TSPs. Finally, it identifies situations when training development activity is under way. (*Note:* The symbol “??” identifies situations when TSP training may not be available. This column was completed based on an assumption that NRCS State specialists and field staffs would not provide training to TSPs. This assumption is consistent with the decision of Bruce Knight, articulated in a decision memo signed on November 7, 2003.)

The material in these worksheets may be useful to you in providing the information being requested in this bulletin. This information is needed for use at a TSP training summit that will be held in June.

Technical Service Provider (TSP) Training Inventory, State Level Training

Course or Training Activity

Type of Training ¹

Provider ²

Other Information ³

¹ Classroom, Field Exercise, Self Study, Other (Specify)

² NRCS, SWCD, Extension, University, Other (Specify)

³ Length of Training, Frequency Offered, Other (Specify)

Technical Service Provider (TSP) Training Inventory, State Level Training

Course or Training Activity

Type of Training ¹

Provider ²

Other Information ³

¹ Classroom, Field Exercise, Self Study, Other (Specify)

² NRCS, SWCD, Extension, University, Other (Specify)

³ Length of Training, Frequency Offered, Other (Specify)

2

40

25

20

25

Technical Service Provider (TSP) Training Inventory, State Level Training

Course or Training Activity

Type of Training ¹

Provider ²

Other Information ³

¹ Classroom, Field Exercise, Self Study, Other (Specify)

² NRCS, SWCD, Extension, University, Other (Specify)

³ Length of Training, Frequency Offered, Other (Specify)

Technical Service Provider (TSP) Training Inventory, State Level Training

Course or Training Activity

Type of Training ¹

Provider ²

Other Information ³

¹ Classroom, Field Exercise, Self Study, Other (Specify)

² NRCS, SWCD, Extension, University, Other (Specify)

³ Length of Training, Frequency Offered, Other (Specify)

Technical Service Provider (TSP) Training Inventory, Training Development, non-NEDC TSP Training Needs or Gaps

Training Activity	Developer	Collaborators ¹	Target Availability Date
Revised Universal Soil Loss Equation (RUSLE2)			
RUSLE2, academic knowledge	CTIC	CCA of ASA	not established
RUSLE2, software	CTIC	CCA of ASA	not established
RUSLE2, field training and use	CTIC	CCA of ASA	not established
Phosphorus Index (PI)			
PI, academic knowledge	none identified		not established
PI, software	none identified		not established
PI, field training and use	none identified		not established
Leaching Index (LI)			
LI, academic knowledge	none identified		not established
LI, field training and use	none identified		not established
Soil Conditioning Index (SCI)			
SCI, academic knowledge	CTIC	CCA of ASA	not established
SCI, software	CTIC	CCA of ASA	not established
SCI, field training and use	none identified		
Wind Erosion Prediction Process (WEPS) or WEQ			
WEPS, academic knowledge	none identified		not established
WEPS, software	none identified		not established
WEPS, field training and use	none identified		not established
NRCS Conservation Program Implementation			
Knowledge of specific program requirements related to delivery of technical services (e.g. eligibility, documentation, etc.) and how programs are used to promote the installation of conservation practices & systems.	none identified		not established

¹ ?? Denotes possible collaborators to develop or deliver training

Technical Service Provider (TSP) Training Inventory, Training Development, non-NEDC TSP Training Needs or Gaps

Training Activity	Developer	Collaborators ¹	Target Availability Date
NRCS Progress Reporting System for TSPs Knowledge of the TSP reporting system & ability to report progress for services delivered.	none identified		not established
Irrigation System Design, Operation, and Maintenance	none identified	IRTC, KSU Web-based learning, Community Colleges ??	not established
Stream Channel Hydraulics & Channel & Streambank Stabilization	none identified	Community Colleges ??	not established
Principles of Land Shaping, Reconstruction, and Reclamation	none identified	Community Colleges ??	not established
Tillage & Erosion Control Plan Development	none identified		not established
Techniques for Vegetative Land Stabilization	none identified		not established
Techniques and Practices for Sealing Reservoirs and Water Conveyance Structures	none identified	USBR, Community Colleges ??	not established
Techniques and Practices for Stabilizing Soils for Access Roads	none identified		not established
Techniques and Practices for the Design, Operation, and Maintenance of Drainage Systems A course that teaches the hydraulics and techniques of drainage water management as they relate to the design, function, and maintenance of surface and subsurface drainage systems. NOTE! The NEDC course "Hydrology Training Series" may include content pertinent to this need.	none identified	NC State University ?? Community Collages ??	not established
Surface and Groundwater Supply Development Methods	none identified	Community Colleges ??	not established

¹ ?? Denotes possible collaborators to develop or deliver training

Technical Service Provider (TSP) Training Inventory, Training Development, non-NEDC TSP Training Needs or Gaps

Training Activity	Developer	Collaborators ¹	Target Availability Date
The Design, Operation, and Maintenance of Engineering Components of Wetland Systems	none identified		not established
Sources of Feed Management Technical Assistance Information about local sources of feed management technical assistance.	none identified		not established
Hydrology, Earthwork, and Soil Mechanics A course about hydrology, soil mechanics and earthwork as they influence the construction of embankment or excavated ponds, and structures for water control. NOTE! The NEDC course "Hydrology Training Series" may be relevant to this need.	none identified	Community Collages ??	not established
Principles of Irrigation Water Management A course that teaches the principles of irrigation water management and how the NRCS practice standard for irrigation water management is used.	none identified	IRTC, KSU Web-based learning, Community Colleges ??	not established
Open Channel Hydraulics A course that teaches principles of open channel hydraulics and how they influence the design & function of open channels. NOTE! The NEDC course "Hydrology Training Series" may include content relevant to this need.	none identified	Community Colleges ??	not established

¹ ?? Denotes possible collaborators to develop or deliver training

2

40

25

20

25

Technical Service Provider (TSP) Training Inventory, Training Development, non-NEDC TSP Training Needs or Gaps

Training Activity	Developer	Collaborators ¹	Target Availability Date
<p>Pipeline and Closed Conduit Hydraulics</p> <p>A course that teaches the principles of pipeline and closed conduit hydrology, and how hydrology influences the design and function of pipelines and other closed conduits. NOTE! The NEDC course "Hydrology Training Series" may include content pertinent to this need.</p>	none identified	IRTC, CIT, Community Colleges ??	not established
<p>The Science and Principles of Surface Water Management</p> <p>A course that teaches the science and principles of surface water management. NOTE! The NEDC course "Hydrology Training Series" may include content pertinent to this need.</p>	none identified		not established

¹ ?? Denotes possible collaborators to develop or deliver training

Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
General Category (apply to all technical service categories listed in Tech Reg)	Knowledge of NRCS Field Office Technical Guide (FOTG), especially conservation practice standards, Knowledge of NRCS programs and their implementation procedures, Knowledge of TSP progress reporting system, Knowledge of NRCS procedures for environmental compliance for conservation assistance, Knowledge of general principles of conservation planning.	ojt ² or workshop NEDC Course 5a ojt ² or workshop n/a ¹ NEDC Course 6 NEDC Course 1a	?? NEDC Course 5a ?? ?? NEDC Course 6 NEDC Course 1a	
20 CNMP Plan Approval Practices-- 316, 322, 360, 317, 327, 328, 656, 332, 330, 340, 589A, 589C, 324, 362, 592, 386, 393, 412, 561, 422, 468, 634, 484, 590, 533, 329A, 320B, 329C, 344, 555, 557, 558, 570, 571, 585, 587, 606, 609, 600, 620, 601, 313, 359, 633, 635, 640	Knowledge of NRCS (CNMP) planning policy Title 180, Part 600.5 "Comprehensive Nutrient Management Planning Technical Assistance," plus State-Level Planner Certification, or Conservation Planning Knowledge; plus References of past work, plus Skill in using RUSLE2, plus Skill in using WEQ or WEPS, plus Skill in using the Phosphorus Index (PI), plus Skill in using the Leaching Index (LI).	ojt ² or workshop n/a ¹ NEDC Course 1a NEDC Course 1b n/a ¹ ojt ² or workshop ojt ² or workshop ojt ² or workshop ojt ² or workshop	?? n/a ¹ NEDC Course 1a ?? n/a ¹ ?? ?? ?? ??	CTIC
38 CNMP Plan Development-- Feed Management Practices-- 592	Knowledge of NRCS (CNMP) planning policy Title 180, Part 600.5 "Comprehensive Nutrient Management Planning Technical Assistance,"	ojt ² or workshop	??	

ojt ² or workshop =
informal NRCS training environment

n/a ¹ = No NRCS Training Responsibility

?? = TSP Training Not Readily Available

Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
	Knowledge of diet and feeding technologies and their use in modifying manure nutrient content,	NRCS Nutrient Mgt. Technical Notes 1-5	NRCS Nutrient Mgt. Technical Notes 1-5	
	Ability to discuss feed management with producers during development of CNMPs,	NRCS Nutrient Mgt. Technical Notes 1-5	NRCS Nutrient Mgt. Technical Notes 1-5	
	Knowledge of sources of feed-management technical assistance available in area.	??	??	
50				
CNMP Plan Development- Land Treatment Practices-- 322, 327, 328, 332, 330, 340, 589A, 589C, 324, 362, 386, 393, 412, 422, 603, 423, 468, 484, 329A, 329B, 329C, 344, 555, 558, 557, 570, 571, 585, 587, 606, 609, 600, 620, 601, 640.	Skill in using RUSLE2, plus Skill in using WEQ or WEPS, plus Knowledge of NRCS (CNMP) planning policy Title 180, Part 600.5 "Comprehensive Nutrient Management Planning Technical Assistance," plus Knowledge of NRCS (CNMP) policy for determining conservation planning objectives GM 180, Part 409.1 "Conservation Planning Objectives," plus Completion of the University of Tennessee CNMP training course, or Completion of NRCS-approved training that meets requirements for CNMP Certified Specialist categories.	ojt ² or workshop ojt ² or workshop ojt ² or workshop ojt ² or workshop n/a ¹ ojt ² or workshop	?? ?? ?? ?? n/a ¹ ??	CTIC
66				
CNMP Plan Development- Manure and Wastewater Handling & Storage Practices-- 316, 360, 317, 656, 561, 634, 533, 558, 313, 359, 633, 635.	Knowledge of NRCS (CNMP) planning policy Title 180, Part 600.5 "Comprehensive Nutrient Management Planning Technical Assistance," plus Engineer's License when required by State law, plus Completion of NRCS approved training that meets requirements for CNMP Certified Specialist categories, or Completion of the University of Tennessee CNMP training course, plus	ojt ² or workshop n/a ¹ ojt ² or workshop n/a ¹	?? n/a ¹ ?? n/a ¹	

ojt ² or workshop =
informal NRCS training environment

n/a ¹ = No NRCS Training Responsibility

?? = TSP Training Not Readily Available

Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
78	State nutrient certification or license (when required by State regulation).			
CNMP Plan Development- Nutrient Management Practices- 590, 633.	Skill in using RUSLE2, plus	ojt ² or workshop	??	
	Skill in using WEQ or WEPS, plus	ojt ² or workshop	??	
	Skill in using the Phosphorus Index (PI), plus	ojt ² or workshop	??	
	Skill in using the Leaching Index (LI), plus	ojt ² or workshop	??	
	Knowledge of NRCS (CNMP) planning policy Title 180, Part 600.5 "Comprehensive Nutrient Management Planning Technical Assistance," plus	ojt ² or workshop	??	
	Knowledge of NRCS (CNMP) policy for determining conservation planning objectives GM 180, Part 409.1 "Conservation Planning Objectives," plus	ojt ² or workshop	??	
	Completion of NRCS-approved training that meets requirements for CNMP Certified Specialist categories, or	NEDC Course 4a NEDC Course 4b	NEDC Course 4a ??	
	Completion of the University of Tennessee CNMP training course, plus	n/a ¹	n/a ¹	
	State nutrient certification or license (when required by State regulation).	n/a ¹	n/a ¹	
98				
CNMP Plan Development- Total Plan Practices- 316, 322, 360, 317, 327, 328, 656, 332, 330, 340, 589A, 589C, 324, 362, 592, 386, 393, 312, 561, 422, 603, 423, 468, 634, 484, 590, 533, 3129B, 329A, 329C, 344, 555, 558, 557, 570, 571,	Skill in using RUSLE2, plus	ojt ² or workshop	??	
	Skill in using WEQ or WEPS, plus	ojt ² or workshop	??	
	Skill in using the Phosphorus Index (PI), plus	ojt ² or workshop	??	
	Skill in using the Leaching Index (LI), plus	ojt ² or workshop	??	
	Knowledge of NRCS (CNMP) planning policy Title 180, Part 600.5 "Comprehensive Nutrient Management Planning Technical Assistance," plus	ojt ² or workshop	??	
	Knowledge of NRCS (CNMP) policy for determining conservation planning objectives GM 180, Part 409.1 "Conservation Planning Objectives," plus	ojt ² or workshop	??	
	Knowledge and skills for developing the individual technical modules of CNMPs,	NEDC Course 4a NEDC Course 4b,	NEDC Course 4a NEDC Course 4b,	

ojt² or workshop =
informal NRCS training environment

n/a¹ = No NRCS Training Responsibility

?? = TSP Training Not Readily Available

Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
585, 587, 606, 609, 600, 620, 601, 313, 359, 633, 635, 640 127	including Feed Management, Land Treatment, Manure & Wastewater Handling & Storage, Nutrient Management, Alternative Manure Treatment & Utilization, plus Completion of NRCS approved training that meets requirements for CNMP-certified specialist categories, or Completion of the Environmental Management Solutions (EMS) CNMP training course, or Completion of the University of Tennessee CNMP training course, plus State nutrient certification or license when required by State regulation. Engineer's License when required by State regulation.	NRCS Nutrient Mgt. Technical Notes 1-5, NEDC Course 7 NEDC Course 8 NEDC Course 1a NEDC Course 1b n/a ¹ n/a ¹ n/a ¹ n/a ¹ n/a ¹	NRCS Nutrient Mgt. Technical Notes 1-5, NEDC Course 7 NEDC Course 8 NEDC Course 1a ?? n/a ¹ n/a ¹ n/a ¹ n/a ¹	
129				
Certified Conservation Planner	State-Level Planner Certification, or Conservation Planning, plus Skill in using RUSLE2, Skill in using WEQ or WEPS, Skill in using the Phosphorus Index (PI), Skill in using the Leaching Index (LI), Skill in using the Soil Conditioning Index (SCI), References of past work.	n/a ¹ NEDC Course #1a NEDC Course #1b ojt ² or workshop ojt ² or workshop ojt ² or workshop ojt ² or workshop ojt ² or workshop n/a ¹	n/a ¹ NEDC Course #1a ?? ?? ?? ?? ?? n/a ¹	
139				
Channel & Streambank Stabilization Practices-- 584, 322, 326, 500, 580.	Experience. plus References of past work, plus Professional License, plus Knowledge of Stream Channel Hydraulics & Channel & Streambank Stabilization.	n/a ¹ n/a ¹ n/a ¹ ??	n/a ¹ n/a ¹ n/a ¹ ??	
145				
Contaminate Reduction Control	Experience, plus References of past work, plus	n/a ¹ n/a ¹	n/a ¹ n/a ¹	

ojt ² or workshop =
informal NRCS training environment

n/a ¹ = No NRCS Training Responsibility

?? = TSP Training Not Readily Available

Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
450, 455, 571 610	Professional License, plus Knowledge of salinity, its sources and control.	n/a ¹ NEDC Course 8	n/a ¹ NEDC Course 8	Under Development
151				
Cultural Resource Compliance Studies	Knowledge of Department of Interior Standards, plus Cultural Resource Training, plus References of past work.	n/a ¹ NEDC Course 3a NEDC Course 3b NEDC Course 3c n/a ¹	n/a ¹ NEDC Course 3a ?? ?? n/a ¹	 requires workshop requires workshop
158				
Feed Management	Certification as a professional nutritionist or animal scientist, plus References of past work.	n/a ¹ n/a ¹	n/a ¹ n/a ¹	
162				
Forestry/Agroforestry Practices-- 311, 394, 490 666, 338, 562 391, 612, 660 472, 380, 650	Professional Certification, or 5 years of experience, and References of past work; or College Degree (BS+), and 1 Year Experience, and References of past work.	n/a ¹ n/a ¹ n/a ¹ n/a ¹ n/a ¹ n/a ¹	n/a ¹ n/a ¹ n/a ¹ n/a ¹ n/a ¹ n/a ¹	
169				
Grazing/Forages Practices-- 575, 314, 382 394, 511, 548 561, 512, 528A 550, 645, 472 644	Society for Range Management Certification, or Professional Certification, or 5 Years Experience, and References of past work, or College Degree (BS+), and References of past work.	n/a ¹ n/a ¹ n/a ¹ n/a ¹ n/a ¹ n/a ¹	n/a ¹ n/a ¹ n/a ¹ n/a ¹ n/a ¹ n/a ¹	
177				
Irrigation (Water Conveyance) Practices-- 320, 388, 464, 428A, 428B, 428C, 533, 587.	Professional Engineer's License when required by State regulation, plus Knowledge of open channel hydraulics, plus Experience, plus References of past work.	n/a ¹ ojt ² or workshop n/a ¹ n/a ¹	n/a ¹ ?? n/a ¹ n/a ¹	

ojt ² or workshop =
informal NRCS training environment

n/a ¹ = No NRCS Training Responsibility

?? = TSP Training Not Readily Available

Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
183				
Irrigation System (Application) Practices— 450, 441, 443, 447, 442, 449, 533, 610.	Professional Engineer's License when required by State regulation, plus Knowledge of Irrigation System Design, Operation, & Maintenance, plus Experience, plus References of past work; or Certification Irrigation Association CID.	n/a ¹ ojt ² or workshop n/a ¹ n/a ¹	n/a ¹ ?? n/a ¹ n/a ¹ IA,s CID	
192				
Irrigation Water Management Practices— 449.	Professional Certification; or Five years experience, and Knowledge of the science, technology, and practice for system design, and References of past work; or BS+ degree and Knowledge of the science, technology, and practice for system design, and One year experience, and References of past work.	n/a ¹ n/a ¹ ojt ² or workshop n/a ¹ n/a ¹ ojt ² or workshop n/a ¹ n/a ¹	n/a ¹ n/a ¹ ?? n/a ¹ n/a ¹ ?? n/a ¹ n/a ¹	
205				
Land Shaping (w/ PE) Practices— 464, 453, 543, 466, 462, 566, 572.	Professional Engineer's License, plus Experience, plus Knowledge of the principles of land shaping, reconstruction and reclamation, plus References of past work.	n/a ¹ n/a ¹ ojt ² or workshop n/a ¹	n/a ¹ n/a ¹ ?? n/a ¹	
209				
Land Shaping (w/o PE)	Experience, plus References of past work.	n/a ¹ n/a ¹	n/a ¹ n/a ¹	
212				
Land Treatment—Buffer Practices— 332, 589C, 386, 393, 422, 603, 601.	Agronomic Certification, or College Degree (BS+), or 5 years experience; plus Skill in using RUSLE2, plus Skill in using WEQ or WEPS, plus	n/a ¹ n/a ¹ n/a ¹ ojt ² or workshop ojt ² or workshop	n/a ¹ n/a ¹ n/a ¹ ?? ??	CTIC

ojt² or workshop =
informal NRCS training environment

n/a¹ = No NRCS Training Responsibility

?? = TSP Training Not Readily Available

Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
	Ephemeral gully treatment & control, plus Skill in using WIN-PST, plus Buffer Plan Development Proficiency, plus References of past work.	ojt ² or workshop NEDC Course #4b NEDC Course #2 n/a ¹	?? NEDC Course #4b ?? n/a ¹	
222				
Land Treatment—Surface Water Management Practices— 362, 412, 423, 468, 555, 558, 557, 570, 587, 606, 600, 620, 640.	Professional Engineer's license, plus Knowledge of hydrology and other sciences that influence surface water management, management, plus Skill in using RUSLE2, plus Skill in using WIN-PST, plus Experience, plus References of past work.	n/a ¹ ojt ² or workshop ojt ² or workshop NEDC Course #4b n/a ¹	n/a ¹ ?? ?? NEDC Course #4b n/a ¹	ASA, CTIC
231				
Land Treatment—Residue Management and Erosion Practices— 328, 330, 331, 589A, 324, 329B, 329A, 329C, 344, 585, 609.	Professional Certification (ASA), or Agronomic Certification, or College Degree, BS+1 year experience, or 5 years experience; plus Skill in using RUSLE2, plus Skill in using WEQ or WEPS, plus Ephemeral Gully treatment & control, plus Skill in using the Soil Conditioning Index (SCI), plus Knowledge of the NRCS Soil Tillage Intensity Rating (STIR) process, plus Plan Development Proficiency.	n/a ¹ n/a ¹ n/a ¹ n/a ¹ ojt ² or workshop ojt ² or workshop	n/a ¹ n/a ¹ n/a ¹ n/a ¹ ?? ?? ?? ?? ?? ?? ??	ASA, CTIC ASA, CTIC
244				
Land Treatment—Vegetative Land Stabilization Practices— 332, 327, 340, 484, 571.	Professional Agronomic Certification, or College Degree, BS+1 year experience; or 5 years experience; plus Proficiency in planning, design, layout, in- spection, & management of land treatment treatment practices in this category, plus References of past work, plus	n/a ¹ n/a ¹ n/a ¹ ojt ² or workshop n/a ¹	n/a ¹ n/a ¹ n/a ¹ ?? n/a ¹	

ojt ² or workshop =
informal NRCS training environment

n/a ¹ = No NRCS Training Responsibility

?? = TSP Training Not Readily Available

Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
	Skill in using WEQ or WEPS, plus	ojt ² or workshop	??	
	Knowledge of Ephemeral Gully control, plus	ojt ² or workshop	??	
	Skill in using the Phosphorus Index (PI), plus	NEDC Course #4b	NEDC Course #4b	
	Skill in using the Leaching Index (LI), plus	NEDC Course #4b	NEDC Course #4b	
	Knowledge of State Requirements.	NEDC Course #4c	??	
293				
Pest Management Practices-- 595.	Professional Certification (ASA), and State License/Certification when required, or State Certification/License; plus	n/a ¹ n/a ¹ n/a ¹	n/a ¹ n/a ¹ n/a ¹	
	Skill in using RUSLE2, plus	ojt ² or workshop	??	ASA, CTIC
	Skill in using WEQ or WEPS, plus	ojt ² or workshop	??	
	Knowledge of Ephemeral Gully Control, plus	ojt ² or workshop	??	
	Skill in using WIN-PST, plus	NEDC Course #4b	NEDC Course #4b	
	Pest Planning Proficiency, plus	NEDC Course #4a	NEDC Course #4a	
	Knowledge of State Requirements.	NEDC Course #4c	??	
303				
Prescribed Burning Practices-- 394, 338.	State Certification, plus References of past work.	n/a ¹ n/a ¹	n/a ¹ n/a ¹	
311				
Reservoir or Water Conveyance Sealing Practices-- 428A, 428B, 428C, 521A, 521B, 521C.	Professional Engineer's License, plus Knowledge of the techniques and practices for sealing reservoirs or water conveyance structures, plus Experience, plus References of past work.	n/a ¹ ojt ² or workshop n/a ¹ n/a ¹	n/a ¹ ?? n/a ¹ n/a ¹	
313				
Soil Stabilization for Access Roads Practices-- 560, 575, 655, 561, 568.	Professional Engineer's License, plus Knowledge of the techniques and practices used to stabilize soils used for access roads, plus Experience, plus References of past work.	n/a ¹ ojt ² or workshop n/a ¹ n/a ¹	n/a ¹ ?? n/a ¹ n/a ¹	
320				
Surface Water Detention / Retention	Professional Engineer's License as required by State regulation; plus	n/a ¹	n/a ¹	

ojt² or workshop =
informal NRCS training environment

n/a¹ = No NRCS Training Responsibility

?? = TSP Training Not Readily Available

Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
Practices-- 397, 402, 348, 356, 432, 398, 410, 552, 436, 447, 378, 350, 587, 606, 638, 658, 659, 657.	Knowledge of the planning, design, layout, function and inspection of surface water detention and retention structures, plus Knowledge of hydrology, earthwork, and soil mechanics, plus Experience, plus References of past work.	ojt ² or workshop ojt ² or workshop n/a ¹ n/a ¹	?? ?? n/a ¹ n/a ¹	
330				
Waste Utilization as a Feedstock for Livestock Practices-- 633.	Certification as a Professional Animal Scientist; plus References of past work.	n/a ¹ n/a ¹	n/a ¹ n/a ¹	
334				
Waste Utilization for Energy Production Practices-- 633.	Professional Engineer's License as required by State regulation; plus References of past work.	n/a ¹ n/a ¹	n/a ¹ n/a ¹	
338				
Water Conveyence (Pipelines) Practices-- 432, 430AA, 516, 430BB, 430DD, 430EE, 430CC, 430GG, 430HH, 430FF	Professional Engineer's License as required by State regulation; plus Knowledge of the science, technologies, and practices used to design pipelines, plus Knowledge of hydraulics and how they influence the design and function of pipelines and other closed conduits, plus Experience, plus References of past work, plus Knowledge of the NRCS Field Office Technical Guide.	n/a ¹ ojt ² or workshop ojt ² or workshop n/a ¹ n/a ¹ NEDC Course 5a	n/a ¹ ?? ?? n/a ¹ n/a ¹ NEDC Course 5a	
350				
Water Management (Drainage) Practices-- 310, 554, 482, 582, 532, 533, 587, 606, 607, 608, 620, 630.	Professional Engineer's License as required by State regulation; plus Knowledge of hydraulics and drainage water management; of the science, plus technology, and practices used to design drainage systems, plus Experience, plus	n/a ¹ ojt ² or workshop n/a ¹	n/a ¹ ?? n/a ¹	

ojt² or workshop =
informal NRCS training environment

n/a¹ = No NRCS Training Responsibility

?? = TSP Training Not Readily Available

Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
	References of past work.	n/a ¹	n/a ¹	
359				
Water Supply Facilities Practices— 432, 516, 533, 574, 636, 614, 648.	Professional Engineer's License as required by State regulation; plus Knowledge of the science, technology, and practices for developing water surface and ground water supplies, plus Experience, plus References of past work.	n/a ¹ ojt ² or workshop n/a ¹ n/a ¹	n/a ¹ ?? n/a ¹ n/a ¹	
367				
Water Well Practices— 642, 351.	Professional Engineer's License as required by State regulation; plus Knowledge of the science, technology, plus and practices for developing water supplies, plus Experience, plus References of past work.	n/a ¹ ojt ² or workshop n/a ¹ n/a ¹	n/a ¹ ?? n/a ¹ n/a ¹	
375				
Well and Shaft Technology Practices— 457, 532, 533, 630.	Professional Engineer's License as required by State regulation, plus Knowledge of the science, technology, and practices, plus Experience, plus References of past work.	n/a ¹ ojt ² or workshop n/a ¹ n/a ¹	n/a ¹ ?? n/a ¹ n/a ¹	
382				
Wetlands Practices— 656, 356, 587, 658, 659, 657.	Certification as a Professional Soil Scientist by the American Society of Agronomy, or Professional Engineer's License as required by State regulation; plus Knowledge of the science, technology, and practices for the design, operation, and function of wetlands.	n/a ¹ n/a ¹ ojt ² or workshop	n/a ¹ n/a ¹ ??	

ojt² or workshop =
informal NRCS training environment

n/a¹ = No NRCS Training Responsibility

?? = TSP Training Not Readily Available

Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
390				
Wetlands (Interdisciplinary) Biological Components Practices-- 658, 659, 657.	Certification as a professional wetland biologist or professional wetland scientist and 1 year of experience, or College Degree (BS+), and 2 years of experience; plus Knowledge of science of wetland systems and of the interdisciplinary nature of the associated biological and engineering practices, plus References of past work.	n/a ¹ n/a ¹ n/a ¹ n/a ¹ ojt ² or workshop n/a ¹	n/a ¹ n/a ¹ n/a ¹ n/a ¹ ?? n/a ¹	
401				
Wetlands (Interdisciplinary) Engineering Components Practices-- 658, 659, 657.	Professional Engineer's License as required by State regulation; plus Knowledge of science of wetland systems and of the interdisciplinary nature of the associated biological and engineering practices, plus 2 years experience, plus References of past work.	n/a ¹ ojt ² or workshop n/a ¹ n/a ¹	n/a ¹ ?? n/a ¹ n/a ¹	
410				
Wetlands with Associated Engineering Components Practices-- 656, 356, 587.	Professional Engineer's License as required by State regulation; plus Knowledge of the design, operation, and maintenance of the practices in this category and how they function in a wetland system, plus Experience, plus References of past work.	n/a ¹ ojt ² or workshop n/a ¹ n/a ¹	n/a ¹ ?? n/a ¹ n/a ¹	
419				
Wildlife and Fisheries Practices-- 647, 396, 422, 643, 390, 395, 645, 644.	Certification by a wildlife or related professional organization, or College Degree (BS+) and References of past work, or 5 Years Experience and	n/a ¹ n/a ¹ n/a ¹ n/a ¹	n/a ¹ n/a ¹ n/a ¹ n/a ¹	

ojt² or workshop =
informal NRCS training environment

n/a¹ = No NRCS Training Responsibility

?? = TSP Training Not Readily Available

Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
426	References of past work; plus	n/a ¹	n/a ¹	
Wildlife and Fisheries with Engineering Components Practices— 398, 399, 646, 648.	Certification by a wildlife or related professional organization and Professional Engineer's License (as required by State regulation), or Professional Engineer's License as required by State regulation and 5 Years Experience and References of past work, or College Degree (BS+) and 1 year of experience and Professional Engineer's License as required by State regulation and References of past work.	n/a ¹ n/a ¹ n/a ¹ n/a ¹ n/a ¹ n/a ¹ n/a ¹ n/a ¹	n/a ¹ n/a ¹ n/a ¹ n/a ¹ n/a ¹ n/a ¹ n/a ¹ n/a ¹	
440				

ojt² or workshop =
 informal NRCS training environment

n/a¹ = No NRCS Training Responsibility

?? = TSP Training Not Readily Available